AMENDMENTS TO THE CLAIMS:

This listing of the claims will replace all prior versions, and listings, of the claims in this application:

The Claims:

1. (**Currently Amended**) A method comprising:

receiving, from a first processor at a second processor, ~~an intermediate~~ <u>a coarse scaled image</u> matrix having a coarse scaling ratio 1/X as compared to an original <u>image</u> matrix, and

fine scaling, by the second processor, the ~~intermediate~~ <u>coarse scaled image</u> matrix by using a ratio Y/Z to create a final <u>image</u> matrix ~~image~~ having a scaling ratio R as compared to the original <u>image</u> matrix;

where X, Y, and Z are non-zero integers,

Y < Z,

the scaling ratio R corresponds approximately to an equation Y/(Z*X), and

coarse scaling is simpler than fine scaling.

2. (**Currently Amended**) A method according to Claim 1, wherein the fine scaling is performed, after ~~the first~~ <u>a coarse</u> scaling, to a pixel group calculated for the ~~intermediate~~ <u>coarse scaled image</u> matrix, without completing the calculation of the entire ~~intermediate~~ <u>coarse scaled image</u> matrix.

3. (Previously Presented) A method according to Claim 1, further comprising selecting the integer X to be as great as possible, according to the integers maximums selected for Y and Z and the selected scaling ratio R.

4. (Previously Presented) A method according to Claim 1, further comprising selecting the integer X to be the greatest possible power of two according to the scaling ratio R.

5. (Previously Presented) A method according to Claim 1, further comprising selecting X, Y and Z so that 1/X is approximately Y/Z.

6. (**Currently Amended**) An apparatus comprising:

memory areas configured to store an original digital <u>image</u> matrix ~~image~~ to be scaled, for data to be processed, and configured to store an output image matrix, <u>and</u>

a central processing unit configured to process the original <u>image</u> matrix ~~image~~ in two stages by a selected scaling ratio R, in [[the]] <u>a</u> first stage <u>of the two stages</u> the original <u>image</u> matrix is coarse scaled, by a first processor, by using a ratio 1/X to create pixels of ~~the intermediate~~ <u>a coarse scaled image</u> matrix, and in [[the]] <u>a</u> second stage <u>of the two stages</u> each pixel of the ~~intermediate~~ <u>coarse scaled image</u> matrix is fine scaled, by a second processor, by using a ratio Y/Z, and wherein an equation Y/(Z*X) corresponds approximately to a scaling ratio R and wherein Y < Z, and

where coarse scaling is simpler than fine scaling.

7. (Previously Presented) An apparatus according to Claim 6, wherein the apparatus is integrated in connection with the image sensor of a camera.

8. (Previously Presented) An apparatus according to Claim 7, wherein the apparatus incorporates a host system and the first processor is integrated in connection with the image sensor of a camera and the second processor is integrated in the host system.

9. (Canceled).

10. (**Currently Amended**) An apparatus according to Claim 6, wherein the apparatus includes a memory for [[the]] <u>a</u> scaling function of at most 4 image-sensor lines for each color component.

11. (Previously Presented) An apparatus according to Claim 6, wherein the apparatus is fitted to a mobile station.

12. (**Currently Amended**) A computer-readable memory having software stored thereon and the software when executed by a central processing unit performs:

receiving ~~an intermediate~~ a coarse scaled image matrix having a coarse scaling ratio 1/X as compared to an original image matrix, and

fine scaling the ~~intermediate~~ coarse scaled image matrix by using a ratio Y/Z to create a final image matrix having a scaling ratio R as compared to the original image matrix;

where X, Y, and Z are non-zero integers,

Y < Z,

the scaling ratio R corresponds approximately to an equation Y/(Z*X), and

coarse scaling is simpler than fine scaling.

13. (**Currently Amended**) A method according to Claim 1, further comprising displaying an image corresponding to the ~~first, coarse scaling~~ coarse scaled image matrix in an analog form.

14. (**Currently Amended**) An apparatus according to Claim 6, further comprising a display configured to display an image corresponding to the ~~first, coarse scaling~~ coarse scaled image matrix in an analog form.

15. (**Currently Amended**) A computer-readable memory according to Claim 12, wherein the software when executed by a central processing unit further performs displaying an image corresponding to the ~~first, coarse scaling~~ coarse scaled image matrix in an analog form.

16. (**Currently Amended**) A method according to Claim 1, further comprising selecting a value of the ratio 1/X for coarse scaling the original image matrix so as to reduce a memory requirement and a computational requirement when fine scaling the ~~intermediate~~ coarse scaled image matrix.

17. (Previously Presented) A method according to Claim 1, further comprising selecting X, Y and Z so that Y/Z is greater than or equal to 1/2 and less than or equal to 1.

18. (**Currently Amended**) A method according to Claim 1, further comprising:

receiving, at the first processor, the original image matrix;

coarse scaling the original <u>image</u> matrix by using the ratio 1/X to create pixels of the ~~intermediate~~ <u>coarse scaled image</u> matrix, and

sending, from the first processor to the second processor, the ~~intermediate~~ <u>coarse scaled image</u> matrix.

19. **(Currently Amended)** A computer-readable memory according to Claim 12, wherein the software when executed by a central processing unit further performs selecting a value of the ratio 1/X for coarse scaling the original <u>image</u> matrix so as to reduce a memory requirement and a computational requirement when fine scaling the ~~intermediate~~ <u>coarse scaled image</u> matrix.

20. (Previously Presented) A computer-readable memory according to Claim 12, wherein the software when executed by a central processing unit further performs selecting X, Y and Z so that Y/Z is greater than or equal to 1/2 and less than or equal to 1.

21. **(New)** A method according to Claim 1, further comprising displaying an image corresponding to the coarse scaled image matrix.